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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/590,049	06/08/2000	Kenneth J. Southwick	106747-118 DV US CNI	1291

7590 08/27/2003

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[REDACTED] EXAMINER

RIDLEY, BASIA ANNA

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

1764

DATE MAILED: 08/27/2003

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/590,049 Examiner <i>JK</i> Basia Ridley	SOUTHWICK, KENNETH J. Art Unit 1764	

-- The MAILING DATE of this communication appears in the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 19 May 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 33-70 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 33-70 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

a) This application contains claims directed to the following patentably distinct species of the rotor:

Species I, cylindrical shaped, as disclosed, for example, in Fig. 1;

Species II, conical shaped;

Species III, hour-glass shaped, as disclosed, for example, in Fig. 10;

Species IV, barrel shaped, as disclosed, for example, in Fig. 11;

Species V, disk shaped, as disclosed, for example, in Fig. 12.

b) If in fact the applicant elects species I, further restriction to Further, this application contains claims directed to the following patentably distinct species of the design of outlets and inlets:

Species I-1, as disclosed, for example, in Fig. 1;

Species I-2, as disclosed, for example, in Fig. 1A; and

Species I-3, as disclosed, for example, in Fig. 5.

c) Further, this application contains claims directed to the following patentably distinct species of the collider chamber:

Species A, tear drop shaped, as disclosed, for example, in Fig. 6; and

Species B, C shaped, as disclosed, for example, in Fig. 8.

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- d) Further, this application contains claims directed to the following patentably distinct species of the design of outlets and inlets:

Species 1, as disclosed, for example, in Fig. 2; and

Species 2, as disclosed, for example, in Fig. 9.

- e) Further, this application contains claims directed to the following patentably distinct species of the method of operation:

Species a, rotating rotor towards the leading end, as disclosed, for example, in Fig. 6; and

Species b, rotating rotor towards the trailing end, as disclosed, for example, in Fig. 7.

- f) Further, this application contains claims directed to the following patentably distinct species of the method of operation:

Species i, for fluid heating;

Species ii, for fluid separation;

Species iii, for fluid / solids separation;

Species iv, for acceleration of chemical reaction;

Species v, for chemical bond disassociation.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species of each category (either I-1 or I-2 or I-3 or II or III or IV or V and either A or B and either 1 or 2 and either a or b and either i or ii or iii or iv or either v) for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims appears to be generic.

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2. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement (either I-1 or I-2 or I-3 or II or III or IV or V and either A or B and either 1 or 2 and either a or b and either i or ii or iii or iv or either v), and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election..

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

3. Due to complexity of the above restriction requirement, no telephone call was made to request an oral election.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Basia Ridley, whose telephone number is (703) 305-

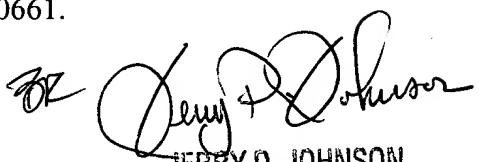
5418. The examiner can normally be reached on Monday through Thursday, from 8:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola, can be reached on (703) 308-6824.

The fax phone number for Group 1700 is (703) 872-9311 (for Official papers after Final), (703) 872-9310 (for other Official papers) and (703) 305-6078 (for Unofficial papers). When filing a fax in Group 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

BR
Basia Ridley
Examiner
Art Unit 1764


JERRY D. JOHNSON
PRIMARY EXAMINER
GROUP 1100

BR
August 21, 2003